

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**List of Plants for ALPHA-TERPINENE**

Plant	Part	Low PPM	High PPM	StdDev	Reference
Achillea millefolium	Leaf	2.0	1120.0	0.2663807470003411	--
Acinos alpinus	Shoot		0.5	-0.4798166343572028	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acinos alpinus	Shoot		0.5	-0.4798166343572028	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acorus calamus	Plant				--
Agathosma betulina	Leaf				--
Agathosma betulina	Leaf Essent. Oil				--
Ageratum conyzoides	Plant	4.0	30.0	-0.4563792530327342	--
Aloysia citrodora	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Anethum graveolens	Seed Essent. Oil				--
Anethum graveolens	Leaf	0.1	2100.0	0.7727809471570283	--
Anethum graveolens	Shoot Essent. Oil		3400.0	-0.7201742929072495	--
Anethum graveolens	Essential Oil				--
Angelica archangelica	Fruit				--
Angelica archangelica	Root	0.0	6.0	-0.6602197185589468	--
Angelica archangelica	Root Essent. Oil				--
Apium graveolens	Seed Essent. Oil		1000.0	-1.0089204175742374	--
Apium graveolens	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Apium graveolens	Fruit Essent. Oil		1000.0	-0.8348120728111189	--
Apium graveolens	Leaf Essent. Oil				--
Artemisia annua	Leaf	4.0	11715.0	5.741186992571873	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Artemisia salsolooides</i>	Shoot		2650.0	6.9451946634613355	V. Kaul, P. Weyerstahl, H. Wahlberg, H. Marschall, (1992); Volatile constituents of the essential oil and the absolute of <i>Artemisia salsolooides</i> Willd. from Ladakh, Flavour and Fragrance journal, Vol.7, 299-305.
<i>Artemisia capillaris</i>	Essential Oil				--
<i>Aspalathus linearis</i>	Leaf Essent. Oil				--
<i>Barosma betulina</i>	Leaf				--
<i>Boswellia sacra</i>	Resin Essent. Oil				Abdel Wahab, S. M., Aboutabl, E. A., El-Zalabani, S. M., Fouad, H. A., De Pooter, H. L., El-Fallaha, B. 1987. The Essential Oil of Olibanum. Plant Med. 53 (4): 382-384.
<i>Boswellia serrata</i>	Essential Oil				--
<i>Brassica oleracea</i> var. <i>capitata</i> L.	Shoot		14.0	-0.4419839668650155	--
<i>Callicarpa americana</i>	Leaf		0.55	-0.3120781346990502	--
<i>Carica papaya</i>	Fruit				--
<i>Carum carvi</i>	Seed	6.0	12.0	-0.5062619617372923	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Chamaemelum nobile</i>	Plant				--
<i>Chrysanthemum x morifolium</i>	Plant	6.0	24.0	-0.4654209872833327	Wealth of India.
<i>Chrysanthemum parthenium</i>	Shoot		45.0	-0.35510895262369646	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
<i>Cinnamomum verum</i>	Bark Essent. Oil				--
<i>Cinnamomum verum</i>	Leaf	90.0	180.0	-0.21935005723158335	--
<i>Cinnamomum verum</i>	Plant	42.0	168.0	-0.2484193652689688	--
<i>Cinnamomum verum</i>	Leaf Essent. Oil				--
<i>Cinnamomum camphora</i>	Leaf		24.0	-0.29996070133815805	--
<i>Cinnamomum verum</i>	Stem Bark				--
<i>Cinnamomum verum</i>	Root Bark				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Cinnamomum aromaticum</i>	Plant				--
<i>Cistus ladaniferus</i>	Leaf	2.0	140.0	-0.24001945315634607	--
<i>Citrus limon</i>	Essential Oil		70.0	-0.7756123212065256	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Citrus sinensis</i>	Fruit	1.0	2.0	-0.44934612100297294	--
<i>Citrus aurantium</i>	Leaf		1.0	-0.31184560399489664	--
<i>Citrus reticulata</i>	Fruit	0.7	1.0	-0.4549438642997257	--
<i>Citrus paradisi</i>	Pericarp		1.0		--
<i>Citrus aurantiifolia</i>	Fruit		80.0	-0.0127221438562562	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Citrus limon</i>	Pericarp				Jim Duke's personal files.
<i>Citrus limon</i>	Petiole		8.0		--
<i>Coleus barbatus</i>	Leaf Essent. Oil		4000.0	-0.40119306019054174	Jim Duke's personal files.
<i>Coleus barbatus</i>	Stem Essent. Oil		4000.0		Jim Duke's personal files.
<i>Coriandrum sativum</i>	Fruit	1.0	15.0	-0.37657545814518684	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Coriandrum sativum</i>	Seed Essent. Oil	200.0	19700.0	0.21421162836665333	--
<i>Coriandrum sativum</i>	Essential Oil				--
<i>Coridotherymus capitatus</i>	Shoot		130.0	-0.11690326841362823	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
<i>Crocus sativus</i>	Silk Stigma Style				--
<i>Cuminum cyminum</i>	Seed		27.0	-0.49447014585831817	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Cuminum cyminum</i>	Seed Essent. Oil		5000.0	-0.747287894378325	--
<i>Cuminum cyminum</i>	Fruit		27.0	-0.3094025385841535	--
<i>Cunila origanoides</i>	Shoot		644.0	1.3235405161037257	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Curcuma longa</i>	Rhizome		23.0	-1.0	--
<i>Curcuma longa</i>	Leaf		37.0	-0.2932431476626101	--
<i>Daucus carota</i>	Seed	20.0	40.0	-0.48425057209654054	--
<i>Daucus carota</i>	Root		28.0	-0.4450369954730677	--
<i>Elettaria cardamomum</i>	Root Essent. Oil		7000.0	-0.6459900875555472	--
<i>Elettaria cardamomum</i>	Fruit	21.0	60.0	-0.12467700979131179	Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press, Boca Raton, FL 33431. 536 pp. US \$312.50.
<i>Elsholtzia polystachya</i>	Leaf		0.2	-0.31225899191339185	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from <i>Elsholtzia polystachya</i> from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
<i>Elsholtzia polystachya</i>	Leaf		0.2	-0.31225899191339185	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from <i>Elsholtzia polystachya</i> from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
<i>Elsholtzia pilosa</i>	Shoot		10.0	-0.4531936461219599	--
<i>Ephedra sinica</i>	Shoot		21.0	-0.4223670281653628	--
<i>Eucalyptus saligna</i>	Shoot		40.0	-0.36912105169487697	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus oviformis</i>	Shoot		30.0	-0.3971452498372379	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus brassiana	Leaf		7.0	-0.3087451946061822	Singh, A. K., Gupta, K. C., & Brophy, J. J. 1991. Chemical Constituents of the Leaf Essential Oil of Eucalyptus brassiana S. T. Blake. Journal of Essential Oil Res. 3: 45-7.
Eucalyptus melliodora	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus astringens	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus globulus	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus cladocalyx	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus sideroxylon	Shoot		22.0	-0.4195646083511267	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus punctata	Shoot		45.0	-0.35510895262369646	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus occidentalis	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus botryoides	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus bosistoana</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus maidenii</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus albens</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus diversicolor</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus citriodora</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus siderophloia</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus polyanthemos</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus camaldulensis</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus moluccana</i>	Shoot		145.0	-0.07486697120008677	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus blakelyi</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus maculata</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus dealbata</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus globulus</i>	Fruit Essent. Oil				--
<i>Eucalyptus tereticornis</i>	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Foeniculum vulgare</i>	Seed		1.0	-0.5149092933818734	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Foeniculum vulgare</i>	Plant		135.0	-0.29814890364726054	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Foeniculum vulgare</i>	Seed Essent. Oil				Jim Duke's personal files.
<i>Foeniculum vulgare</i>	Fruit		1.0	-0.4549438642997257	--
<i>Helianthus annuus</i>	Flower				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Hypericum perforatum</i>	Plant	1.0	18.0	-0.4744627215339312	--
<i>Hyptis suaveolens</i>	Shoot		0.0	-0.48121784426432085	Mallavarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. <i>J. Ess. Oil Res.</i> 5: 321.
<i>Hyptis suaveolens</i>	Shoot		0.0	-0.48121784426432085	Mallavarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. <i>J. Ess. Oil Res.</i> 5: 321.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Hyptis suaveolens</i>	Plant		130.0	-0.30568368218942593	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 74.
<i>Hyssopus officinalis</i>	Leaf	1.0	1880.0	0.6590992695708332	--
<i>Illicium verum</i>	Fruit		70.0	-0.06869957682378398	--
<i>Juniperus communis</i>	Fruit	16.0	640.0	3.1220141023253	--
<i>Juniperus sabina</i>	Plant				--
<i>Laurus nobilis</i>	Leaf Essent. Oil				--
<i>Laurus nobilis</i>	Leaf	14.0	300.0	-0.1573418694572951	--
<i>Lavandula latifolia</i>	Plant	4.0	11.0	-0.4850114114929628	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lavandula x hybrida</i>	Shoot	1.0	9.0	-0.45599606593619596	Tucker, A.O., Maciarello, M.J., Angell, S., Espaillat, J.R., and French, E.C. 1993. The Essential Oil of <i>Lavandula x hybrida</i> Balb. ex Ging., a Distinct Hybrid from <i>L. x heterophylla</i> Poir. (Labiateae). J. Ess. Oil Res. 5: 443-445.
<i>Lavandula x intermedia</i>	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lepechinia calycina</i>	Plant		115.0	-0.3282880178159222	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Levisticum officinale</i>	Root	1.0	10.0	-0.621095587088787	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lindera benzoin</i>	Twig	7.0	9.0		--
<i>Lindera benzoin</i>	Fruit	4.0	6.0	-0.42695514781596183	--
<i>Litsea glaucescens</i>	Shoot	60.0	75.0	-0.2710363581966136	Tucker, et al, EB46(1):21-24.1992
<i>Magnolia denudata</i>	Leaf				--
<i>Magnolia denudata</i>	Bulb				--
<i>Magnolia denudata</i>	Twig				--
<i>Magnolia denudata</i>	Bark				--
<i>Melaleuca alternifolia</i>	Leaf	190.0	4375.0	1.9483528403779093	--
<i>Melaleuca alternifolia</i>	Resin, Exudate, Sap				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Melaleuca alternifolia	Leaf Essent. Oil		4000.0	-0.40119306019054174	--
Melaleuca alternifolia	Root Essent. Oil		92400.0	1.4125007138341448	--
Melaleuca alternifolia	Essential Oil	13000.0	99000.0	1.9993554266154203	--
Mentha pulegium	Plant		20.0	-0.471448810117065	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha pulegium	Essential Oil		1000.0	-0.7495259974879932	--
Mentha longifolia	Shoot	0.0	170.0	-0.004806475844184345	--
Mentha x piperita	Plant		20.0	-0.471448810117065	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Micromeria juliana	Leaf		15.0	-0.30461131542122966	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Micromeria myrtifolia	Shoot		0.0	-0.48121784426432085	Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of Micromeria myrtifolia Boiss. et Hohen. J. Ess. Oil Res., 4: 79-80.
Micromeria fruticosa	Shoot		7.0	-0.46160090556466815	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of Micromeria fruticosa (L.) Druce subsp. barbata (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479.
Micromeria thymifolia	Leaf		5.0	-0.30977866440242036	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Micromeria congesta	Leaf		2.0	-0.31132886909677754	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Micromeria varia	Shoot		3.0	-0.47281058482161253	--
Micromeria teneriffae	Leaf		90.0	-0.2658561980622995	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Micromeria varia	Shoot		3.0	-0.47281058482161253	Pedro, L.G., et al. 1995. Composition of the Essential oil of <i>Micromeria varia</i> Benth. ssp. <i>thymoides</i> (Sol. ex Lowe) Perez var. <i>thymoides</i> , and endemic species of the Madeira Archipelago. <i>flav. &amp; Fragr. J.</i> 10(3): 199-202.
Micromeria fruticosa	Shoot		7.0	-0.46160090556466815	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of <i>Micromeria fruticosa</i> (L.) Druce subsp. <i>barbata</i> (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. <i>J. Ess. Oil Res</i> 3: 477-479.
Monarda punctata	Plant	550.0	1740.0	2.120515008387837	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda didyma	Leaf	10.0	15.0	-0.30461131542122966	--
Monarda citriodora	Leaf		120.0	-0.25035415111872744	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. <i>J. Ess. Oil Res.</i> 6: 27-9.
Monarda fistulosa	Plant	3.0	3193.0	4.310121652741106	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda didyma	Flower		25.0	-0.6227631044837592	Flavour and Fragrance Journal, 6: 80.
Monarda citriodora	Flower		320.0	1.4109835651403249	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. <i>J. Ess. Oil Res.</i> 6: 27-9.
Monarda didyma	Plant	5.0	40.0	-0.44130969594840336	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Murraya koenigii	Leaf		65.0	-0.2787745705152762	--
Myrciaria dubia	Fruit				--
Myristica fragrans	Seed Essent. Oil	8000.0	40000.0	1.5419966835859091	--
Myristica fragrans	Essential Oil	14000.0	42000.0	0.4005162309634348	--
Myristica fragrans	Seed	400.0	3200.0	1.9998919730740246	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Myrrhis odorata</i>	Essential Oil		100.0	-0.7747708268930245	Hussain, R.A., et. al. 1990. Sweetening Agents of Plant Origin: Phenylpropanoid Constituents of Seven Sweet-Tasting Plants. <i>Econ. Bot.</i> 44 2: 174-182. Program Collab. Res. Pharm. Sci. Coll. Pharmacy Univ. Illinois at Chicago IL 60680, USA.
<i>Myrtus communis</i>	Shoot	0.0	4.0	-0.47000816500737647	--
<i>Nepeta racemosa</i>	Shoot		13.0	-0.4447863866792516	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of <i>Nepeta racemosa</i> Lam. <i>J. Ess. Oil Res.</i> 5: 215-7.
<i>Nepeta racemosa</i>	Shoot		13.0	-0.4447863866792516	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of <i>Nepeta racemosa</i> Lam. <i>J. Ess. Oil Res.</i> 5: 215-7.
<i>Ocimum basilicum</i>	Shoot Essent. Oil		300.0	-0.9635029368323148	--
<i>Ocimum gratissimum</i>	Shoot		29.0	-0.39994766965147405	Vostrowsky, O., Garbe, W., Bestmann, H.J. and Maia, J.G.S. 1990. Essential Oil of Alfavaca, <i>Ocimum gratissimum</i> , from Brazilian Amazon. <i>Zeitschr. Naturforschung</i> 45(C): 1073-6.
<i>Ocimum basilicum</i>	Essential Oil		400.0	-0.766355883758014	--
<i>Ocimum basilicum</i>	Plant	1.0	10.0	-0.48651836720139585	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Ocimum gratissimum</i>	Plant	60.0	370.0	0.05598568783451388	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ocimum basilicum</i>	Leaf Essent. Oil		600.0	-0.698535055754104	--
<i>Origanum vulgare</i>	Plant		435.0	0.15393780888266426	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
<i>Origanum syriacum</i>	Shoot		990.0	2.293177771829415	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. <i>J. Ess. Oil Res.</i> 3: 121-123.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum onites	Shoot		350.0	0.49962909071831313	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. &amp; Frag. J.</i> 8: 331-7.
Origanum sipyleum	Shoot		410.0	0.6677742795724789	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.
Origanum majorana	Plant	183.0	1830.0	2.256141022146814	--
Origanum sipyleum	Shoot		325.0	0.4295685953624107	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.
Origanum majorana	Essential Oil		68000.0	1.1298113026643404	--
Origanum majorana	Leaf	138.0	1620.0	0.5247481960598754	--
Origanum vulgare	Shoot		495.0	0.9059799637825472	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. <i>Z. Lebensm Unters Forsch</i> 197: 20-23.
Origanum vulgare	Shoot Essent. Oil	6200.0	13700.0	0.08830474981151562	--
Origanum syriacum	Shoot		990.0	2.293177771829415	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. <i>J. Ess. Oil Res.</i> 3: 121-123.
Origanum onites	Shoot		350.0	0.49962909071831313	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. &amp; Frag. J.</i> 8: 331-7.
Origanum sipyleum	Shoot		325.0	0.4295685953624107	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum vulgare	Plant		2.0	-0.4985740128688605	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
Origanum vulgare	Plant	9.0	178.0	-0.233349808184638	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Origanum majorana	Leaf Essent. Oil		20000.0	0.9980633895203395	--
Origanum vulgare	Plant		3.0	-0.49706705716042743	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
Origanum vulgare	Plant		1.0	-0.5000809685772936	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
Origanum syriacum	Shoot		990.0	2.293177771829415	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. <i>J. Ess. Oil Res.</i> 3: 121-123.
Origanum onites	Plant		47.0	-0.4307610059893718	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Origanum sipyleum	Shoot		15.0	-0.4391815470507794	Baser, K.H.C., Ozek, T., Kurkuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.
Origanum minutiflorum	Shoot	125.0	145.0	-0.07486697120008677	Baser, K.H.C., Tumen, G., Sezik, E. 1991. The Essential Oil of <i>Origanum minutiflorum</i> O. Schwarz and P.H. Davis. <i>J. Ess. Oil Res.</i> 3: 445-446.
Pastinaca sativa	Root				--
Pavonia odorata	Root		250.0	1.726352301120801	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Petroselinum crispum	Seed Essent. Oil				--
Petroselinum crispum	Leaf		0.24	-0.3122383225174671	--
Petroselinum crispum	Fruit Essent. Oil		18000.0	1.4059992805239898	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Peumus boldus</i>	Leaf	3.0	12.0	-0.30616152011558684	--
<i>Pimenta dioica</i>	Leaf		11.0	-0.30667825501370594	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pimenta dioica</i>	Fruit		3.0	-0.44374837770622017	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pimpinella anisum</i>	Essential Oil				--
<i>Pinus sylvestris</i>	Essential Oil				--
<i>Pinus sylvestris</i>	Leaf Essent. Oil		34500.0	2.2661395470708254	--
<i>Pinus sylvestris</i>	Root				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Pinus sylvestris</i>	Leaf				--
<i>Piper nigrum</i>	Fruit				--
<i>Piper auritum</i>	Leaf				Tramil
<i>Piper nigrum</i>	Seed Essent. Oil				--
<i>Piper cubeba</i>	Fruit Essent. Oil				--
<i>Piper cubeba</i>	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Piper nigrum</i>	Fruit Essent. Oil		3000.0	-0.5711872077128709	--
<i>Porophyllum ruderale</i>	Plant	55.0	85.0	-0.37349668906891464	Loayza, I., de Groot, W., Lorenzo, D. et al. 1999. Composition of the essential oil of <i>Porophyllum ruderale</i> (Jacq.) Cass. from Bolivia. Flav. & Fragr. J. 14: 393-8.
<i>Ptychopetalum olacoides</i>	Root Essent. Oil		2000.0	-0.7665106262785971	Uber Bucek, E., Fournier, G., Dadoun, H. 1987. Volatile Constituents of <i>Ptychopetalum olacoides</i> Root Oil. Planta Med. 53, 2: 231.
<i>Pycnanthemum loomisii</i>	Shoot	33.0	168.0	-0.010411315472656538	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ravensara aromatica</i>	Leaf		80.0	-0.2710235470434902	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ribes nigrum	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosmarinus officinalis	Shoot Essent. Oil		32900.0	1.5953724799280489	--
Rosmarinus officinalis	Shoot		5.0	-0.46720574519314034	Tucker, A. O. and Maciarello, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
Rosmarinus officinalis	Leaf		4.0	-0.3102953993005394	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.
Rosmarinus eriocalyx	Shoot	150.0	550.0	1.0601130535655325	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus x lavandulaceus	Shoot	13.0	140.0	-0.08887907027126726	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus officinalis	Leaf Essent. Oil		3000.0	-0.48864658829747176	--
Rosmarinus officinalis	Plant	4.0	555.0	0.33477249389463415	--
Rosmarinus officinalis	Shoot	200.0	540.0	1.0320888554231715	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus tomentosus	Shoot	16.0	40.0	-0.36912105169487697	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus officinalis	Resin, Exudate, Sap				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rosmarinus officinalis	Leaf		4.0	-0.3102953993005394	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.
Rosmarinus officinalis	Shoot	185.0	555.0	1.074125152636713	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus eriocalyx	Shoot	150.0	550.0	1.0601130535655325	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus x mendizabalii	Shoot	43.0	100.0	-0.20097586284071114	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Salvia officinalis	Et		1000.0		--
Salvia officinalis	Leaf	10.0	56.0	-0.2834251845983478	--
Salvia officinalis	Leaf Essent. Oil		2000.0	-0.5761001164044018	--
Salvia dorisiana	Shoot	2.7	3.7	-0.47084889095164734	Tucker, A.O. & Maciarello, M.J. 1994. The Essential Oil of Salvia dorisiana Standley. J. Ess. Oil Res. 6: 97-8.
Salvia officinalis	Essential Oil		11200.0	-0.4634179308976379	--
Sassafras albidum	Leaf		0.0	-0.3123623388930157	--
Satureja cuneifolia	Shoot		315.0	0.40154439722004975	Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366.
Satureja montana	Plant	15.0	410.0	0.11626391617183719	--
Satureja obovata	Shoot	60.0	170.0	-0.004806475844184345	Fitoterapia No.60: 277.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Satureja obovata</i>	Leaf		235.0	-0.19092963783503455	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of <i>Satureja obovata</i> . <i>Phytochemistry</i> 35(1): 83.
<i>Satureja thymbra</i>	Shoot		555.0	1.074125152636713	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. <i>Z. Lebensm Unters Forsch</i> 197: 20-23.
<i>Satureja cilicica</i>	Shoot		130.0	-0.11690326841362823	Tumen, G. Baser, K.H.C. and Kirimer, N. 1993. The Essential Oil of <i>Satureja cilicica</i> P.H. Davis. <i>J. Ess. Oil Res.</i> 5: 547-548.
<i>Satureja hortensis</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Satureja obovata</i>	Leaf		55.0	-0.2839419194964669	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of <i>Satureja obovata</i> . <i>Phytochemistry</i> 35(1): 83.
<i>Satureja obovata</i>	Leaf		235.0	-0.19092963783503455	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of <i>Satureja obovata</i> . <i>Phytochemistry</i> 35(1): 83.
<i>Satureja subspicata</i>	Plant		4.0	-0.49556010145199436	Stanic, G., Petricic, J., and Blazevic, N. 1991. Gas Chromatographic Investigations of Essential Oils of <i>Satureja montana</i> and <i>Satureja subspicata</i> from Yugoslavia. <i>J. Ess. Oil Res.</i> , 3: 153-158.
<i>Satureja douglasii</i>	Plant		13.0	-0.4819975000760966	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Satureja obovata</i>	Leaf		120.0	-0.25035415111872744	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of <i>Satureja obovata</i> . <i>Phytochemistry</i> 35(1): 83.
<i>Sideritis germanicolpitana</i>	Plant	2.0	12.0	-0.4835044557845297	J. Essential Oil, 4: 533.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Sideritis mugronensis</i>	Leaf	10.0	15.0	-0.30461131542122966	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of <i>Sideritis mugronensis</i> Flower and Leaf. <i>J. Ess. Oil Res.</i> , 3: 395-397.
<i>Sideritis mugronensis</i>	Flower		1.0	-0.788220460656566	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of <i>Sideritis mugronensis</i> Flower and Leaf. <i>J. Ess. Oil Res.</i> , 3: 395-397.
<i>Sideritis pauli</i>	Shoot		3.0	-0.47281058482161253	Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of <i>Sideritis pauli</i> Pau. <i>FFJ</i> : 47-8. 1992.
<i>Tanacetum parthenium</i>	Plant				--
<i>Tanacetum vulgare</i>	Plant	40.0	200.0	-0.20019678259911017	--
<i>Tanacetum parthenium</i>	Shoot		45.0	-0.35510895262369646	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
<i>Teucrium micropodioides</i>	Leaf		0.0	-0.3123623388930157	Arnold, N., Bellomaria, B., Valentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium divaricatum</i>	Leaf		0.0	-0.3123623388930157	Arnold, N., Bellomaria, B., Valentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium kotschyanum</i>	Leaf		0.0	-0.3123623388930157	Arnold, N., Bellomaria, B., Valentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium cyprium</i>	Leaf		130.0	-0.24518680213753677	Arnold, N., Bellomaria, B., Valentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium polium</i>	Shoot		2.0	-0.47561300463584866	Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian <i>Teucrium</i> Species. <i>J. Ess. Oil Res.</i> 5: 397-402.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Teucrium gnaphalodes</i>	Shoot		0.5	-0.4798166343572028	Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian Teucrium Species. <i>J. Ess. Oil Res.</i> 5: 397-402.
<i>Thymus vulgaris</i>	Essential Oil				--
<i>Thymus vulgaris</i>	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Thymus capitatus</i>	Shoot		4.0	-0.47000816500737647	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. &amp; Frag. J.</i> 8: 331-7.
<i>Thymus zygis</i>	Shoot		390.0	0.611725883287757	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjilali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of <i>Thymus broussonettii</i> , <i>T. zygis</i> and <i>T. saturejoides</i> . <i>J. Ess. Oil Res.</i> 5: 45-53.
<i>Thymus longicaulis</i>	Shoot	7.0	60.0	-0.313072655410155	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
<i>Thymus riatarum</i>	Shoot		215.0	0.12130241579644002	Iglesias, J., Vila, R., Canigueral, S., Bellakdhar, and II Idrissi, A. 1991. Analysis of the Essential Oil of <i>Thymus riatarum</i> . <i>J. Ess. Oil Res.</i> 3: 43-4.
<i>Thymus serpyllum</i>	Plant	21.0	344.0	0.016804839415253733	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Thymus capitatus</i>	Plant	10.0	120.0	-0.32075323927375676	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Thymus zygis</i>	Shoot	0.1	210.0	0.10729031672525954	De Cunha, A.P. and Salguero, L.R. 1991. The Chemical Polymorphism of <i>Thymus zygis</i> ssp. <i>sylvestris</i> from Central Portugal. <i>J. Ess. Oil Res.</i> 3: 409-12.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Thymus longicaulis</i>	Shoot	0.0	2.5	-0.4742117947287306	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
<i>Thymus cilicus</i>	Shoot		39.0	-0.3719234715091131	Tumen, G., Koyuncu, M., Kirimer, N., and Baser, K.H.C. 1994. Composition of the Essential Oil of <i>Thymus cilicus</i> Boiss. & Bal. <i>J. Ess. Oil Res.</i> 6: 97-8.
<i>Thymus mastichina</i>	Plant		1.0	-0.5000809685772936	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Thymus longicaulis</i>	Shoot	0.0	2.5	-0.4742117947287306	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
<i>Thymus saturejoides</i>	Shoot		40.0	-0.36912105169487697	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjilali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of <i>Thymus broussonettii</i> , <i>T. zygis</i> and <i>T. saturejoides</i> . <i>J. Ess. Oil Res.</i> 5: 45-53.
<i>Thymus broussonettii</i>	Shoot		410.0	0.6677742795724789	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjilali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of <i>Thymus broussonettii</i> , <i>T. zygis</i> and <i>T. saturejoides</i> . <i>J. Ess. Oil Res.</i> 5: 45-53.
<i>Trichostemma dichotomum</i>	Shoot		5.5	-0.46580453528602234	Tucker, A.O. and Maciarello, M.J. 1990. The Essential Oil of <i>Trichostemma dichotomum</i> . <i>J. Ess. Oil Res.</i> 2: 149-150.
<i>Umbellularia californica</i>	Plant	70.0	720.0	0.5834201857860928	--
<i>Valeriana officinalis</i>	Leaf Essent. Oil		600.0	-0.698535055754104	--
<i>Valeriana officinalis</i>	Leaf		15.0	-0.30461131542122966	Father Nature's Farmacy: The aggregate of all these three-letter citations.
<i>Zingiber officinale</i>	Rhizome	0.5	35.0	1.0	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Zingiber officinale</i>	Rhizome Essent. Oil		700.0		--